

In The United States Patent and Trademark Office

Application Number:

09/733,859

Examiner: Nguyen, Dustin

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Applicant(s): Ching-Fang Lin

Group Art Unit: 2154

Filing Date: 12/08/2000

Title: Portable Multi-Tracking Method and System

Date: 04/20/2006

DECLARATION UNDER RULE 132

Honorable Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Sir:

I, Ching-Fang LIN, hereby attest as follows:

I am the sole-named inventor of the above-identified U.S. Patent Application Serial No. 09/733,859, entitled "Portable Multi-Tracking Method and System" (the '859 application).

Commercial Success

My company has had contracts with the US ARMY and other government organizations embodying the subject of the '859 application. The coremicro Palm Navigator containing the "portable multi-tracking method and system" is contracted with the US ARMY and other government organizations. The sample awards are shown as follows:

(1) US ARMY ARDEC Contract No. W15QKN-04-C-1129: The cover page shows award date of August 26, 2004 and contract price. There are two units of coremicro Palm Navigators containing the "portable multi-tracking method and system" technology delivered to the US ARMY according to this contract on February 26, 2005, wherein one of them is delivered on July 26, 2005 and another one is delivered on November 25, 2005 to US ARMY ARDEC.

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- (2) Contract No. W15QKN-04-C-1129: Statement of Work shows the use and application of the "portable multi-tracking method and system" technology.
- (3) US ARMY ARDEC Contract No. W15QKN-04-C-1003: The cover page shows award date of October 21, 2003 and contract price. There are three units of the coremicro Palm Navigators containing the "portable multi-tracking method and system" technology delivered to the US ARMY according to this contract on June 21, 2004, wherein one of them is delivered on May 23, 2005 to US ARMY ARDEC.
- (4) The Final Software Users Manual of the US ARMY ARDEC Contract No. W15QKN-04-C-1003, Pages 1 and 2 (First delivered on Jan 4, 2004 and the final on Sept 2005) show the use and application of the technology of the '859 application.
- (5) US ARMY ARDEC Contract No. W15QKN-06-C-0085: The cover page shows award date of January 06, 2006 and contract price. There are eight units to be delivered.
- (6) Software Design Description of the US ARMY ARDEC Contract No. W15QKN-06-C-0085, Pages 1 and 2, shows the use and application of the technology of the '859 application.
- (7) Software Product Specification of the US ARMY ARDEC Contract No. W15QKN-06-C-0085, Page 1, shows the use and application of the technology of the '859 application.
- (8) US Marine Corps Contract No. M67854-00-C-0023: The cover page shows award date of October 01, 2001 and contract price.
- (9) US Marine Corps Contract No. M67854-00-C-0023: Data Rights states the "Identification and Assertion of USE, Release, or Disclosure Restrictions for existing technology." Item No. 3 in "Technical data or Computer Software to be Furnished with Restriction" clearly shows the developed product is "Portable Multi-Tracking Processing" which is using 100% of the technology of the '859 application. There are five units of coremicro Palm Navigators containing the "portable multi-tracking method and system" technology delivered to the US Marine Corps according to this contract.

In my opinion, an important reason for the commercial success of the portable multi-tracking method and system is the structural configuration which has been expressed in the '859 application. Therefore, the subject matter of the portable multi-tracking method and system exhibits relative to others available in the market is an important reason for the commercial success of the portable multi-tracking method and system.

All statements made of my own knowledge are true and all statements made on information and believed to be true. I acknowledge that willful false statements and the like are punishable by fine, imprisonment, or both under 18 U.S.C. 1001 and may jeopardize the validity of the application or any patent issuing thereon.

By: Ching-Fang Lin

Date: 4/18/06

Attachmentla

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Attachment

CONTINUATION SHEET

W150KN-04-C-1129

Page 6 of 67

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 STATEMENT OF WORK
The contractor's proposal entitled "Multi-Agent Information Fusion and
Decision Aid for Future Combat System", proposal number A2-1654, is the scope
of work for this contract. Because of proprietary information contained
within the proposal, it is attached by reference only.

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Attachment 2b



An SBA Certified Small Disadvantaged Business

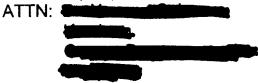
Reusable GPS/IMU/EO/RF/Laser Realtime Componentized Testbed for Future Combat System

Software Users Manual

PREPARED FOR:

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY, NJ 07806 PHONE: (973) 724-6279

FAX: (973) 724-7279



PREPARED BY:

AMERICAN GNC CORPORATION 888 EASY STREET SIMI VALLEY, CA 93065 PHONE: (805) 582-0582

FAX: (805) 582-0098

Email: engineering@americangnc.com

Contract Number: W15QKN-04-C-1003

September 2005

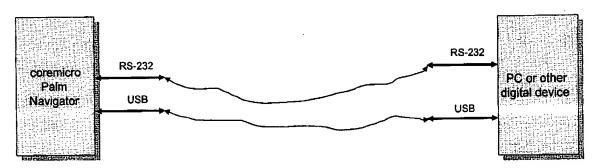
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Software Users Manual

The system software resides in the robot's onboard computer, or in the host computer, or in a PC for a test system. Its functions are to control the operation of the whole robot system, such as communication with the coremicro Palm Navigator 3, guidance and control of the robot.

One of the functions of the software is to control the operation of the coremicro Palm Navigator 3 through a USB port or a RS232 port, as shown in the following figure. The software will be first developed in Windows and converted to Linux later.



Included in this software are a suite of APIs (application program interface) that can be used by the customer for applying the coremicro Palm Navigator 3 in other applications.

As the project proceeds, more functions will be added to the software and this document will be updated every 6 months.

American GNC Corporation Proprietary Information

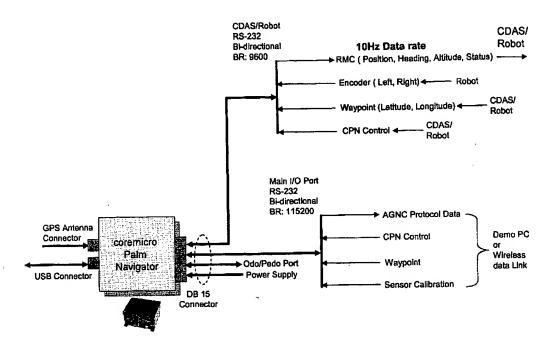


Figure 0-1 Interface Functions of the coremicro Palm Navigator

Figure 0-1 depicts a summary of the current interface functions of the coremicro Palm Navigator. The user can use either the CDAS/Robot port or the main I/O port for data communication, unit control, or system calibration.

RMC output format

The following are RMC message samples.

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It can be seen that the range of the heading is from 0 to 359.9 degrees. The leading zero is sent, so that the heading field is always 5 chars. This is easier for the decoding programming. The heading field is valid even when the GPS validity field is a "V". The heading field is valid as long as it is a valid decimal digital string. If it is not a decimal digital string, it is then used as an indicator of the system status.

Attachment 3a

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Attachment 3b



An SBA Certifled Small Disadvantaged Business

Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System

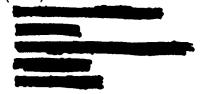
Software Design Description (Draft)

PREPARED FOR:

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY, NJ 07806

> PHONE: (973) 724-6279 FAX: (973) 724-7279

ATTN:



PREPARED BY:

AMERICAN GNC CORPORATION 888 EASY STREET SIMI VALLEY, CA 93065

PHONE: (805) 582-0582 FAX: (805) 582-0098

Email: engineering@americangnc.com

Contract Number: W15QKN-06-C-0085 April 2006

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Software Design Description (Draft)

This Software Design Description establishes the software design for the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System" project. In this project, multiple coremicro® Palm Navigator units will be used in the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System". A software system --- System Control Software --- will be implemented, updated and used as a test and evaluation tool for the project, as shown in Figure 1. The main functions of this System Control Software include: support test and demonstration of the coremicro® Palm Navigator units, provide user interface for the units, data display and storage, support integration test with CDAS, demonstration and monitoring, and in-field system data exchange, etc.

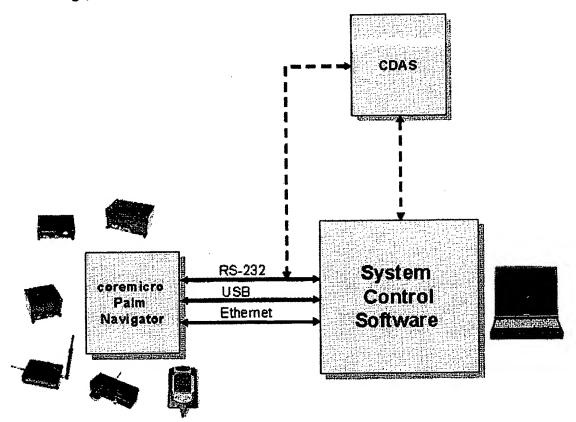
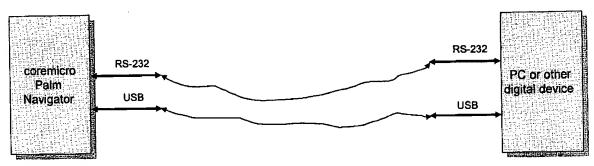


Figure 1 Application of the System Control Software

American GNC Corporation Proprietary Information

The system software resides in the robot's onboard computer, or in the host computer, or in a PC for a test system. Its functions are to control the operation of the whole robot system, such as communication with the coremicro Palm Navigator, guidance and control of the robot.

One of the functions of the software is to control the operation of the coremicro Palm Navigator 3 through a USB port or a RS232 port, as shown in the following figure. The software will be first developed in Windows and converted to Linux later.



Included in this software are a suite of APIs (application program interface) that can be used by the customer for applying the coremicro Palm Navigator 3 in other applications.

As the project proceeds, more functions will be added to the software and this document will be updated every 6 months.

Multiple Tracking Software

The PC based multiple tracking software has been used for coremicro Palm Navigator demonstration. The configuration of the RF data link was improved to increase the tracking range of the system. An interface was added to the coremicro Palm Navigator that can send the position data to a map system and display the unit position on the map in real-time.

The Improvements of PC based multiple tracking software include:

The display has zoom-in and zoom-out functions for tracking display.

Attachment 3c



An SBA Certified Small Disadvantaged Business

Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System

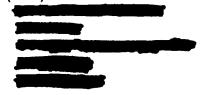
Software Product Specification (Draft)

PREPARED FOR:

U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY, NJ 07806

PHONE: (973) 724-6279 FAX: (973) 724-7279

ATTN:



PREPARED BY:

AMERICAN GNC CORPORATION 888 EASY STREET SIMI VALLEY, CA 93065 PHONE: (805) 582-0582 FAX: (805) 582-0098

Contract Number: W15QKN-06-C-0085

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April 2006

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Software Product Specification (Draft)

This Software Design Description establishes the Software Product Specification for the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System" project. In this project, multiple coremicro® Palm Navigator units will be used in the "Wireless Wide Area Networked Precision Geolocation for Combat Decision Aids System". A software system --- System Control Software --- will be implemented, updated and used as a test and evaluation tool for the project. As shown in Figure 1, the AGNC coremicro® Palm Navigator systems can be used in a wide range of applications, such as, personnel/soldier tracking, fixed wing UAVs, helicopters, robots, cars and other unmanned ground vehicles.

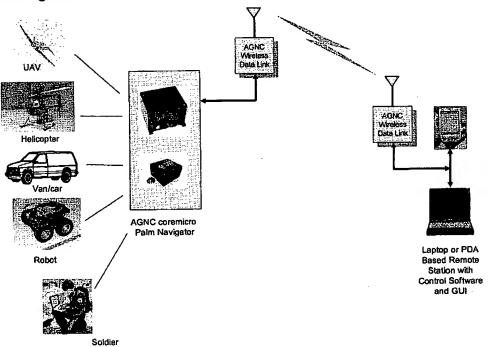


Figure 1 The coremicro Palm Navigator Demonstration System with AGNC RF Data

Link

1 Data Exchange

Attachment 4a

10/01/01 MON 14:52 FAX 703 784 1274 09/22/01 13:20 FAX 8055820098

19A. NAME AND TITLE OF SIGNER (Type or print)

Ching-Fang Lin,

198 NAME OF CONTRATOR

(Signation)

NSN 7540-01-153-8069 REVIOUS EDITION UNUSABLE

President

raon authorized to sign

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03/21/01 FRI 10:39 PAX 703 784 1274 PAGES PAGE THIS CONTRACT IS A RATED ORDER RATING 17 1C9-E UNDER DPAS (15 CFR 350) AWARD/CONTRACT 4. REQUISTION PURCHASE REQUEST, PROJECT NO 3. EFFECTIVE DATE M9545001RCRCR1BV8 CHTRACT (Froc. fast. Iden.) NO. 11177854-01-C-3070 2001 S0512A CODE 6. ADMINISTERED BY (Voiter mon liem 5) CODE M67854 S. ISSUED BY DCMA Van Nuys 6230 Van Nuys Blvd Van Nuys CA 91401-2713 MARCORSYSCOM CTQ 382 2033 Barnen Avenue, STE 315 Quantico VA 22134-5010 June Erwin: 805-713-7771 POC Benjamin Zaslow 703-734-5898 x4-3070 e-mail: zaslowb@mesc,usme,mil 8. DELIVERY 7. NAME AND ADDRESS OF CONTRACTOR (No., street, city, county, State and Zip Code) OTHERY T FOR ORIGIN 9. DISCOUNT FOR PROMPT PAYMENT American GNC Corporation 9131 Mason Ave Chatsworth CA 91311 N/A Hiram McCall MEM 10. SUBMIT INVOICES 805-582-0582 See Block 12, (4 copies writes other-wise specified) TO THE ADDRESS SHOWN IN: and Sections E.1 & G.3(f) 14 DUNS: 611466855 FACILITY CODE 12. PAYMENT WILL BE MADE BY CODE OK700 CODE HO0339 11. SHIP TO/MARK FOR CODE DPAS - Columbus Center DPAS - CO/West Entitlement Operations P.O. Box 182381 Columbus OH 43218-2381 (see also G.2) Sec sections D & F 4. ACCOUNTING AND APPROPRIATION BATA 13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETI-See Section G.1) 41 U.S.C. 253 (c) 10 U.S.C 2304 (6 15F. AMOUNT 15E UNIT PRICE ISP. UNIT 15C. QUANTITY ISB. SUPPLIES/SERVICES 1SALITEM NO. SEE SECTION B 15G. TOTAL AMOUNT OF CONTRACT \$300,000,00 16. TABLE OF CONTENTS PAGE(S) DESCRIPTION PAGE(S) (J) SEC. (V) SEC DESCRIPTION PART II CONTRACT CLAUSES PART I - THE SCHEDULE I CONTRACT CLAUSES SOLICITATION/CONTRACT FORM part III - UST of documents, exhibits and other attack: A SUPPLIES OR SERVICES AND PRICES/COSTS 2 B LIST OF ATTACHMENTS DESCRIPTION/SPECS./WORK STATEMENTS 3 c PART IV - REPRESENTATIONS AND INSTRUCTIONS PACKAGING AND MARKING D REPRESENTATIONS, CERTIFICATIONS AND INSPECTION AND ACCEPTANCE OTHER STATEMENTS OF OFFERORS E DELIVERIES OR PERFORMANCE 8 F INSTES, CONDS, AND NOTICES TO OFFERORS CONTRACT ADMINISTRATION DATA 10 G M EVALUATION FACTORS FOR AWARD SPECIAL CONTRACT REQUIREMENTS H CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE AWARD (Commenter (s no) required to sign this document.) Your 17. CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is reoffer on Selfchadon Number inside by you which additions or changes including the above, is better a commenced in the above, the horse process of the fill above, the consummater one contract which can-community soletates. This award consummater one contract which can-distribute above and your distribute of the fill owners and your cafer any (1) this award consummater. No further contractual document is necessarily and the self-defined in the contractual document is necessarily to the award consummater. quired to sign this elocution and return 2 copies to issuing office.)
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constact that he explicate to and governed by the following documents (2) this
swand contract, (b) the solicitation, if any, and (c) such provident, representations,
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Angelments are listed herein.) 2 copies to issubig office.)

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AMERI

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19C. DATE SIGNED

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Attachmentab

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	Enhanced Inertial Measurement Unit/Global Positioning System Mapping and Navigation			
2 REALTIME TM SIMULATOR Products	AGNC®-2000 RTGIS GPS/IMU REALTIMETM Simulator GSA No. GS-24F-0014K Process and System of Coupled REALTIMETM GPS/IMU	Developed Exclusively at Private Expense	Restricted Rights	Ching-Fang Lin, PhD
	Simulation with Differential GPS			Chi a transfer of the party of
3 Data Exchange and Visualization Products	Portable Multi-tracking Method and System Networked Position Multiple Tracking Processing	Developed Exclusively at Private Expense	Restricted Rights	Ching-Fang Lin, PhD
DATE	Conte	mber 21,2001		

September 21,2001
Ching-Fang Lin, PhD
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